

CHAPTER 5 Drawings

This chapter contains the drawings defining the DVR2 configuration; these include the System, Rack, DRU and Reproducer assembly drawings and associated interconnection diagrams for the 24, 48, 72, and 96-channel Logger chassis configurations. These drawings are listed below. Drawings are arranged in numerical order for ease of use.

NOTE

Refer to the parts list for the latest revision level.

| <u>Drawing</u> | <u>Figure</u> | <u>Title</u> |
|------------------------------|---------------|---|
| 100908-101, -103, -104, -106 | 5-1 | System Assembly, DVR2, 24-96 Channel Configurations |
| 100908-101 w IRR | 5-2 | System Assembly, DVR2, 24 Channel Configuration w IRR |
| 100908-108, -109, -110 | 5-3 | System Assembly, DVR2, 120-192 Channel Configurations |
| 100908-111, -112 | 5-4 | System Assembly, DVR2, 216-288 Channel Configurations |
| 100908-113, -114 | 5-5 | System Assembly, DVR2, 336-384 Channel Configurations |
| 101908-101 | 5-6 | Rack Assembly, DVR2, 24 Channel |
| 101908-103 | 5-7 | Rack Assembly, DVR2, 48 Channel |
| 101908-104 | 5-8 | Rack Assembly, DVR2, 72 Channel |
| 101908-106 | 5-9 | Rack Assembly, DVR2, 96 Channel |
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| 101908-109 | 5-11 | Rack Assembly, DVR2, 144 Channel |
| 101908-110 | 5-12 | Rack Assembly, DVR2, 192 Channel |
| 101908-111 | 5-13 | Rack Assembly, DVR2, 240 Channel |
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| 101908-113 | 5-15 | Rack Assembly, DVR2, 336 Channel |
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| 110909-105 | 5-18 | DRU Assembly, 24 Channel, DVR2 |
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| 110909-107 | 5-20 | DRU Assembly, 72 Channel, DVR2 |
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| 110909-110 | 5-22 | DRU Assembly, 96 Channel, DVR2 |
| 102908-101 | 5-23 | Reproducer Assembly, DVR2 |
| 110918-201 | 5-24 | Workstation Assembly Reproducer, DVR2 |

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DWG NO. 1

| ZONE | | LTR | DESCRIPTION | DATE | APPROVED |
|------|--|-----|-------------|-------------|----------|
| | | | RELEASED | XX.XX-XX-XX | XX/XX |

NOTES: UNLESS OTHERWISE SPECIFIED:

- INTERPRET DRAWING IAW DOD-STD-100.
- WORKMANSHIP TO BE IAW MIL-HDBK-454, REQUIREMENT 9.
- MARK "DVRS SYSTEM ASSEMBLY", CONTRACT NO., SERIAL NO., AND PART NO. USING .12 HIGH BLACK CHARACTERS, USING PROCESS IAW TABLE II, GROUP 1 OF MIL-M-13231.
- ASSEMBLY SHOWN WITH COMPONENTS INSTALLED FOR HIGHEST DASH NO SEE SEPARATE PARTS LIST FOR ACTUAL ASSEMBLY REQUIREMENTS
- FIND NOS 3, 4, 10 THRU 12 ARE USED BUT NOT SHOWN ON FIELD OF DRAWING. SEE SEPARATE PARTS LIST.

GPS OPTION 1

REAR VIEW
SEE VIEW A 2

VIEW A
SCALE: 1/2 3

BLANK

BLANK

BLANK

LINE CONDITIONER/
UPS OPTION

SEE SEPARATE PARTS LIST

| QTY REQ | PAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL/SPECIFICATION | FIND NO |
|---|-----------|-----------------------------------|-----------------------------|------------------------|---------|
| PARTS LIST | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGULAR .XX ± .01 ± 1 XXX ± .005 DO NOT SCALE DWG | | | | | |
| CONTRACT NO DTFA01-95-C-0005 | | DRAWN VINOD PATEL DATE 2001-01-22 | | | |
| CHECK | | DESIGN | | | |
| ENC | | PROJ ENG | | | |
| NEXT ASSY USED ON | | FINISH | | | |
| APPLICATION | | DATE | | | |
| ADDITIONAL APPROVALS | | MANUFACTURING ERROR | | | |
| QUALITY ASSURANCE | | REV STATUS OF SHEETS | | | |
| REVISION | | SHEET | | | |
| 1 | | 2 | | | |
| 3 | | 4 | | | |
| 5 | | 6 | | | |
| 7 | | 8 | | | |

404-DWG-TM-011-A

Figure 5-1; System Assembly, DVR2, 24-96 Channel Configurations

SIZE D CABE CODE 25512 DRAWING NO 100908-101, -103, -104, -106 REV 1

SHEET 1 OF 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|

NOTES: UNLESS OTHERWISE SPECIFIED:

- INTERPRET DRAWING IAW DOD-STD-100.
- WORKMANSHIP TO BE IAW ML-HDBK-454, REQUIREMENT 9.
- MARK "DVRS SYSTEM ASSEMBLY", CONTRACT NO., SERIAL NO., AND PART NO USING 12 HIGH BLACK CHARACTERS, USING PROCESS IAW TABLE II, GROUP 1 OF MIL-M-13231.
- ASSEMBLY SHOWN WITH COMPONENTS INSTALLED FOR HIGHEST DASH NO SEE SEPARATE PARTS LIST FOR ACTUAL ASSEMBLY REQUIREMENTS.
- FIND NOS 3, 4, 10 THRU 13 ARE USED BUT NOT SHOWN ON FIELD OF DRAWING. SEE SEPARATE PARTS LIST

REAR VIEW
SEE VIEW A

VIEW A
SCALE: 1/2

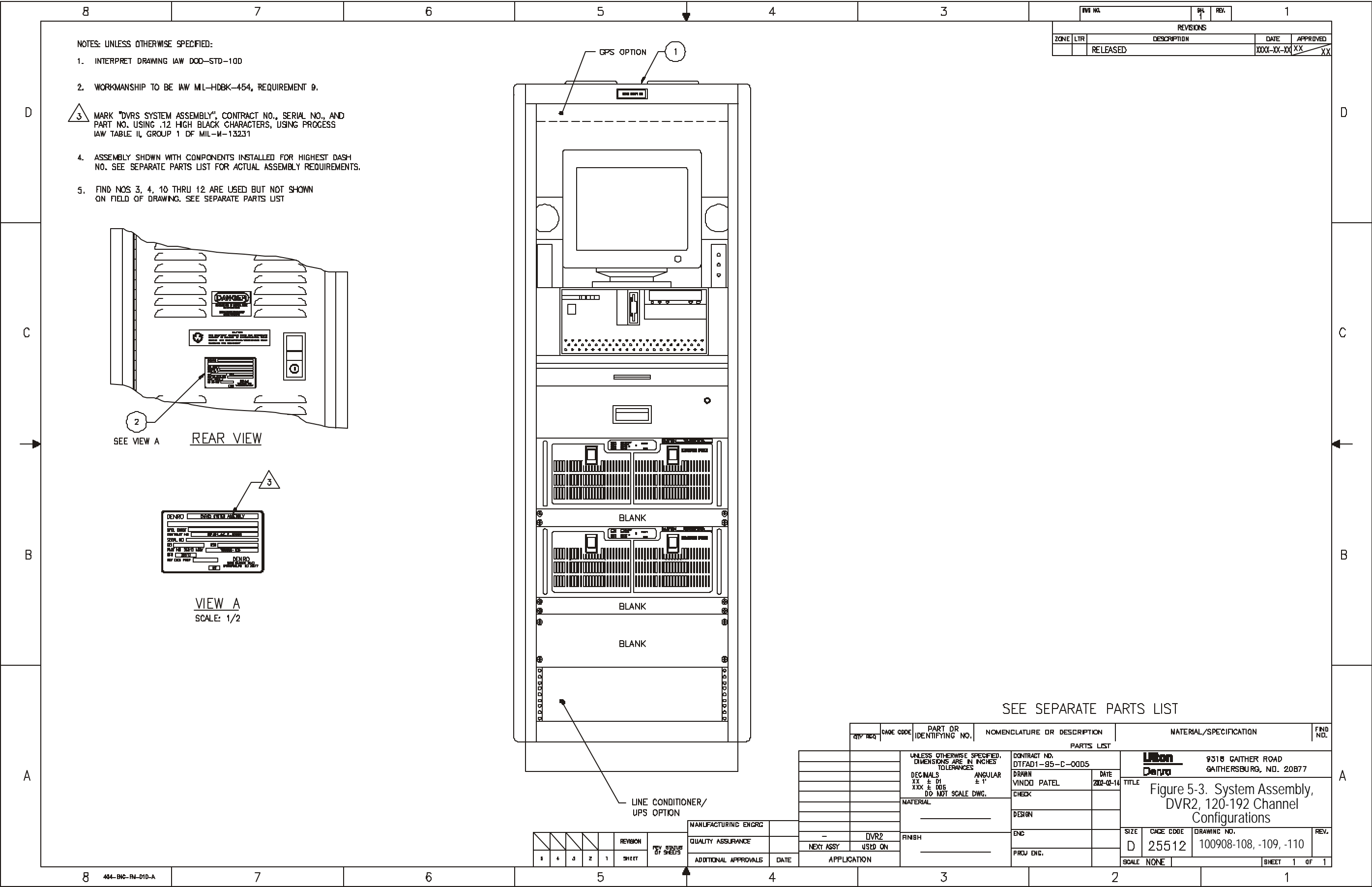
FRONT VIEW

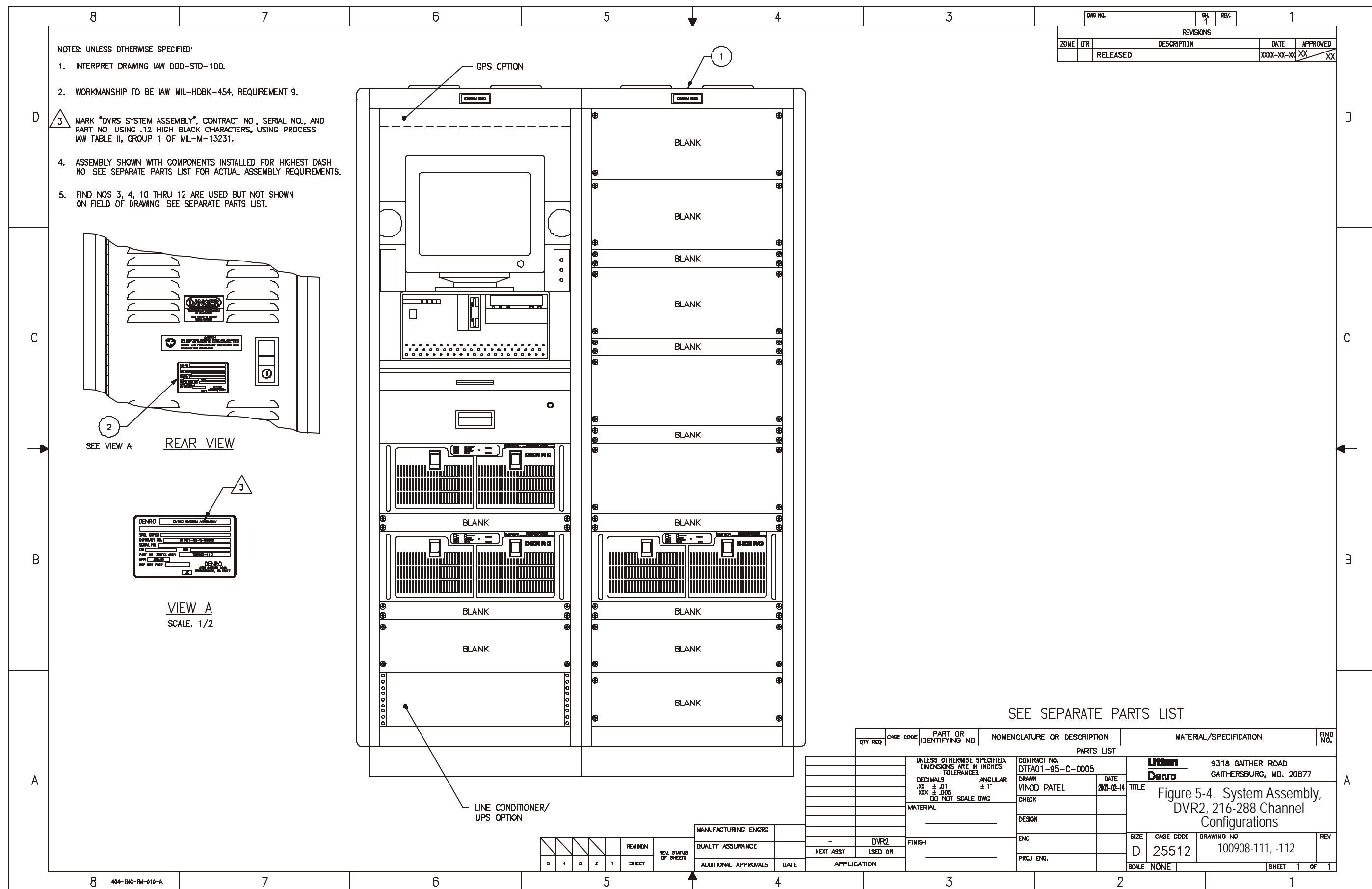
- GPS OPTION (Callout 1)
- LINE CONDITIONER/UPS OPTION (Callout 2)

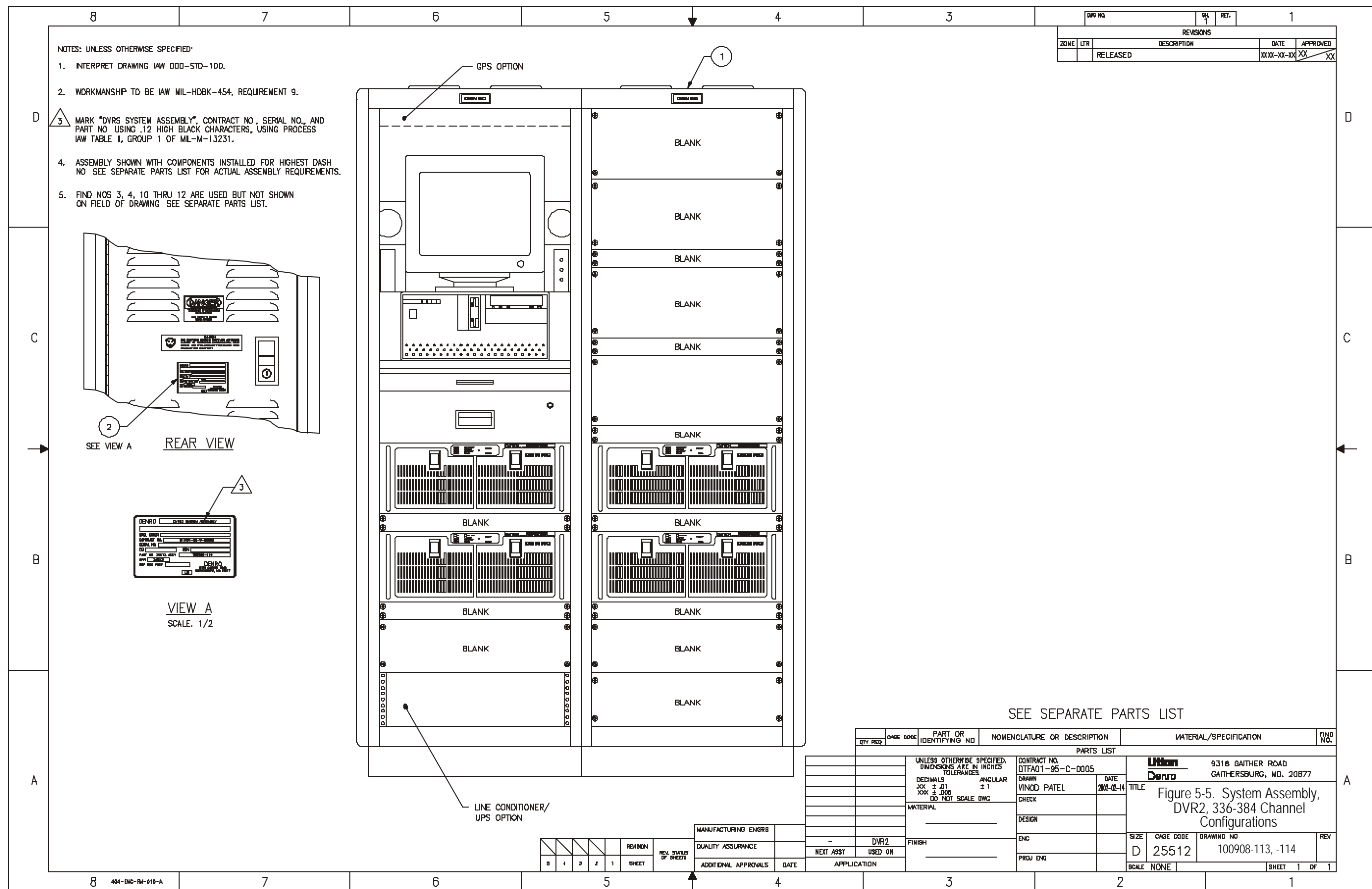
SEE SEPARATE PARTS LIST

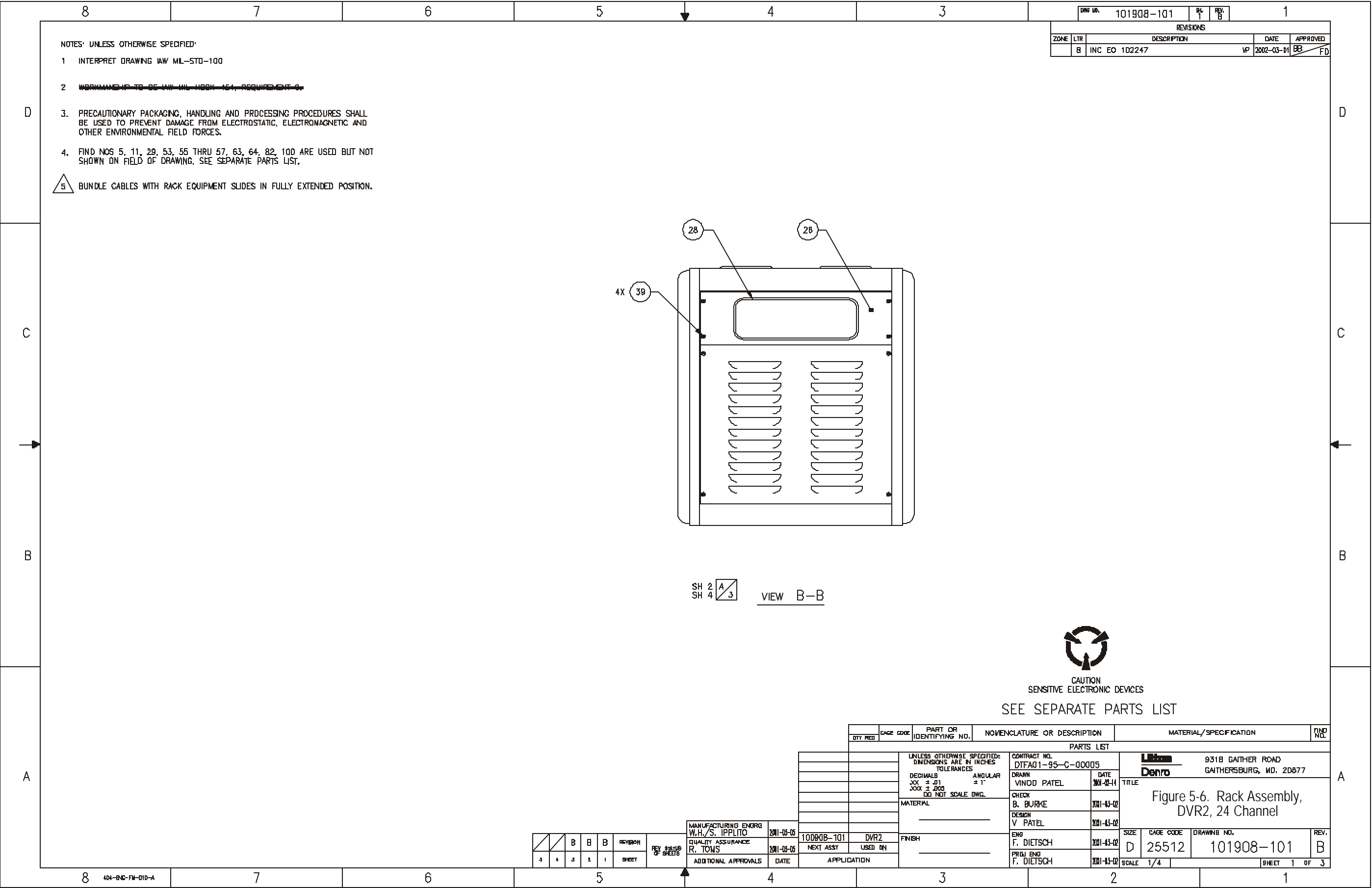
| QTY REQ | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL/SPECIFICATION | FND NO. |
|-------------------|-----------|--|-----------------------------|--|--|
| PARTS LIST | | | | | |
| | | UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS ± .01 ANGULAR ± 1° .XX ± .01 XXX ± .006 DO NOT SCALE DWG | | CONTRACT NO. DTFA01-96-C-0005 | Utman Data 9318 GAITHER ROAD GAITHERSBURG, MD. 20877 TITLE Figure 5-2. System Assembly, DVR2, 24 Channel Configuration w IRR SIZE D 25512 DRAWING NO 100908-101 w IRR REV SCALE NONE SHEET 1 OF 1 |
| | | | MATERIAL | DRAWN VINOD PATEL DATE 2002-02-14 | |
| | | | | CHECK | |
| | | | | DESIGN | |
| | | | | ENG | |
| | | | FINISH | PROJ ENG. | |
| | | | - NEXT ASSY USED ON | | |

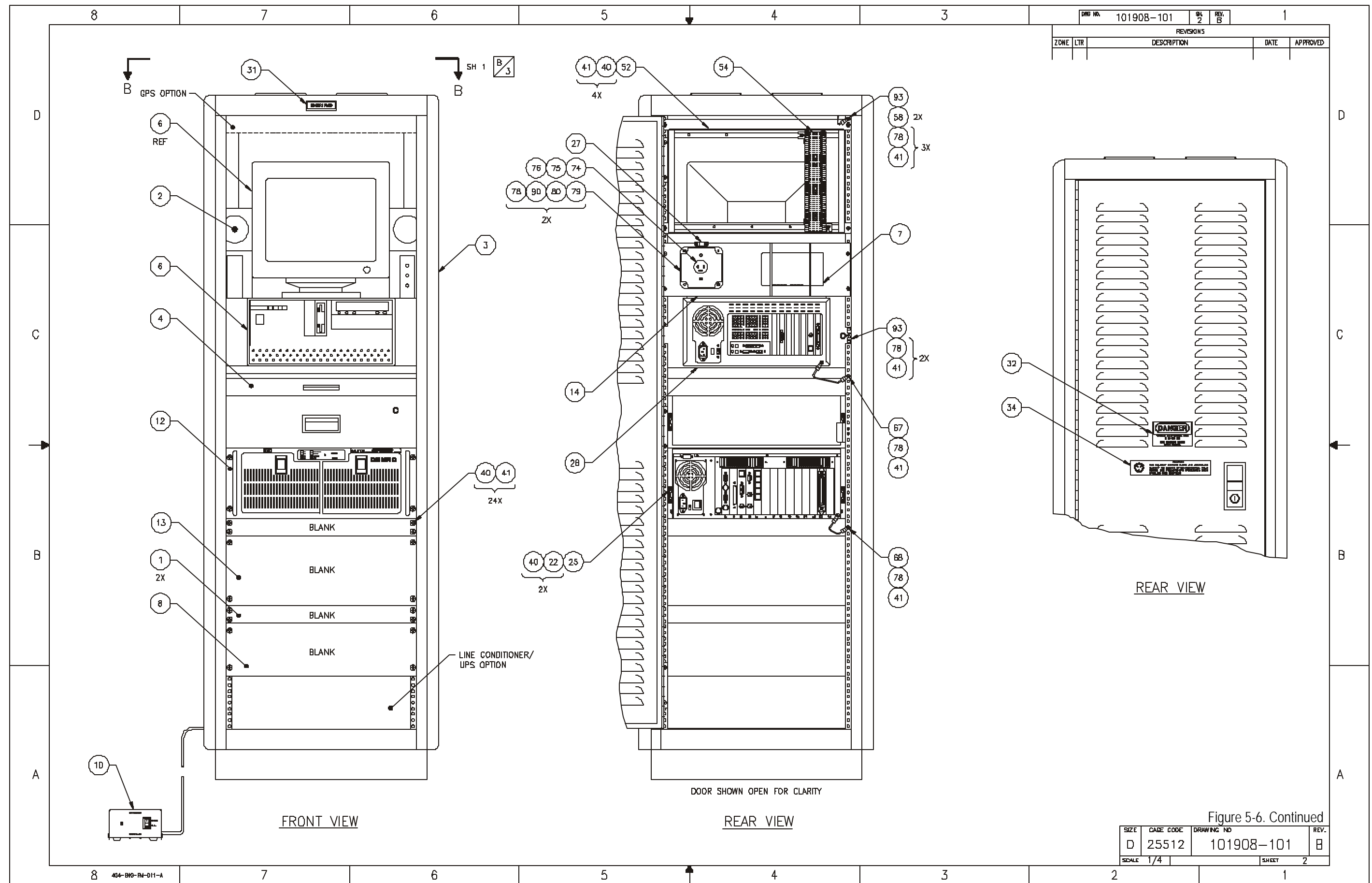
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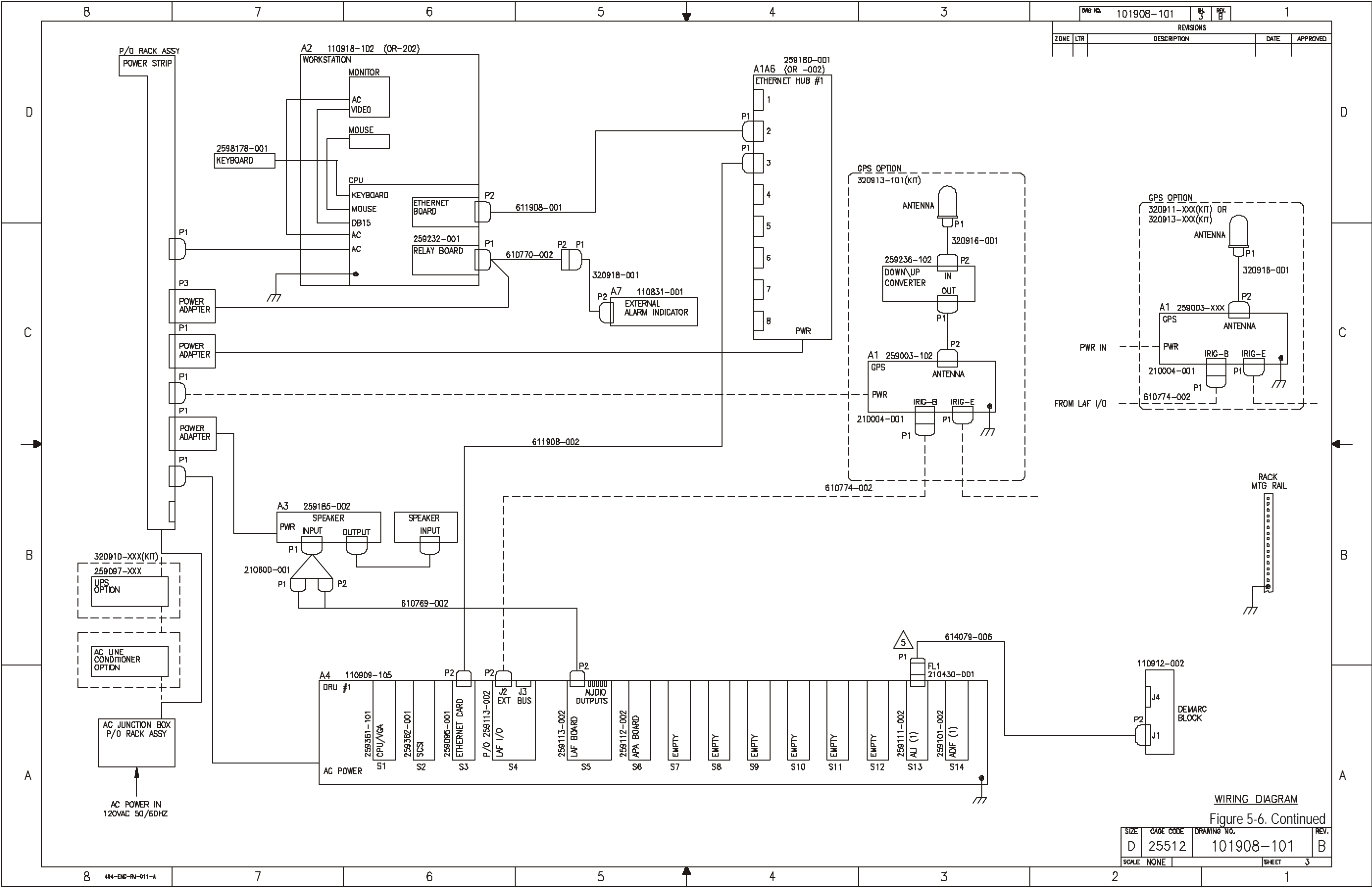


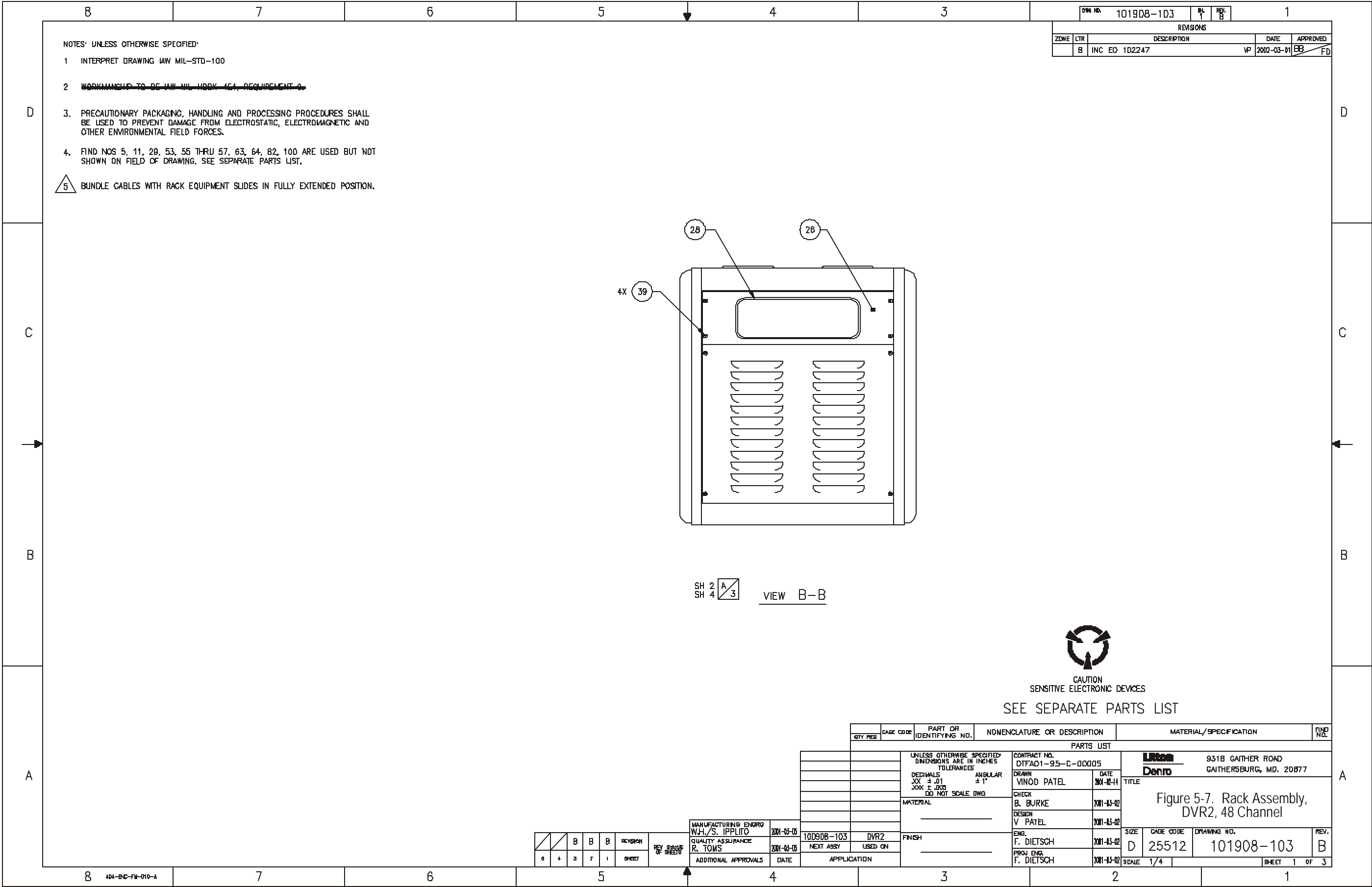












8 404-BNC-FM-010-A

7

6

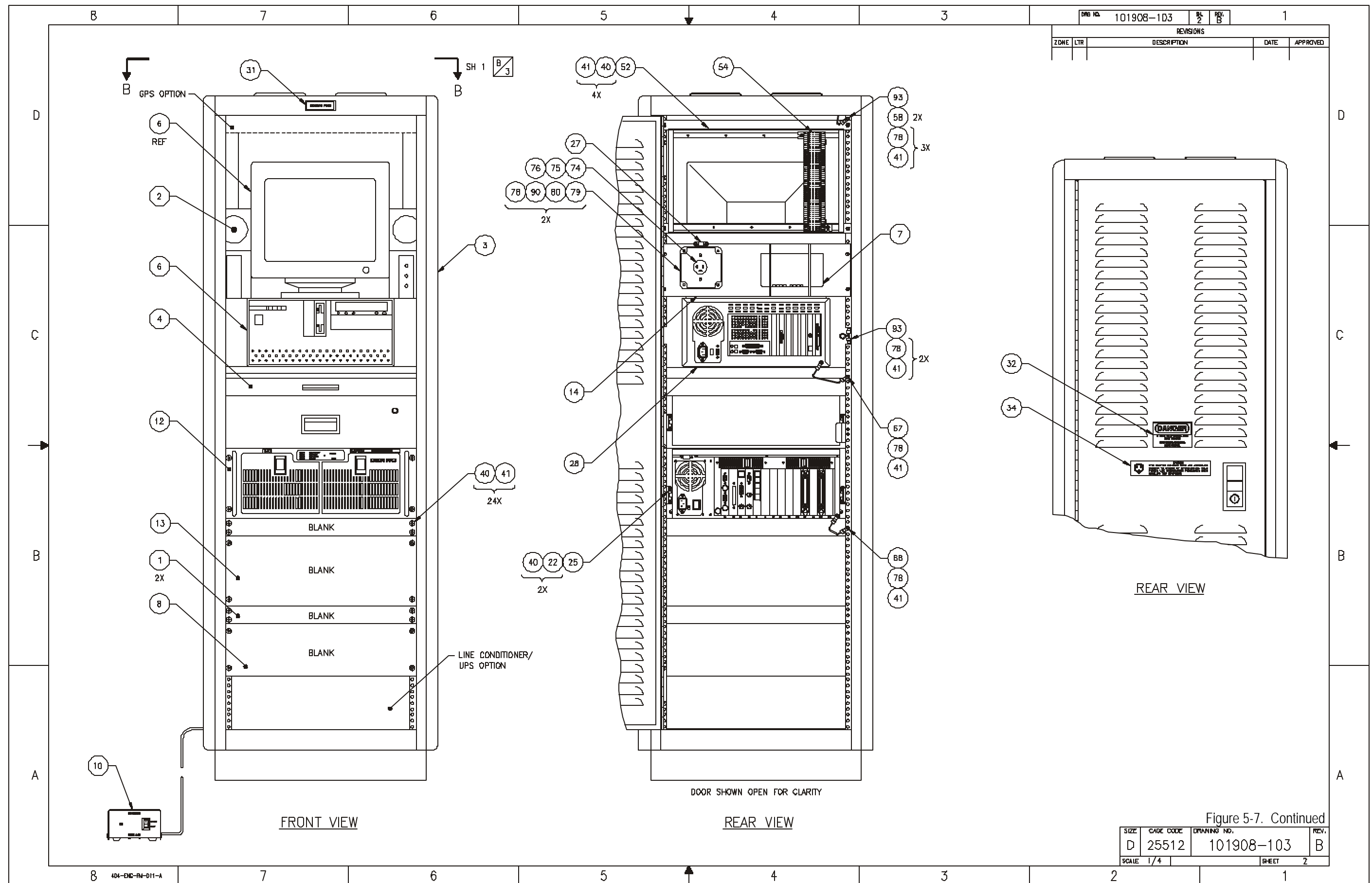
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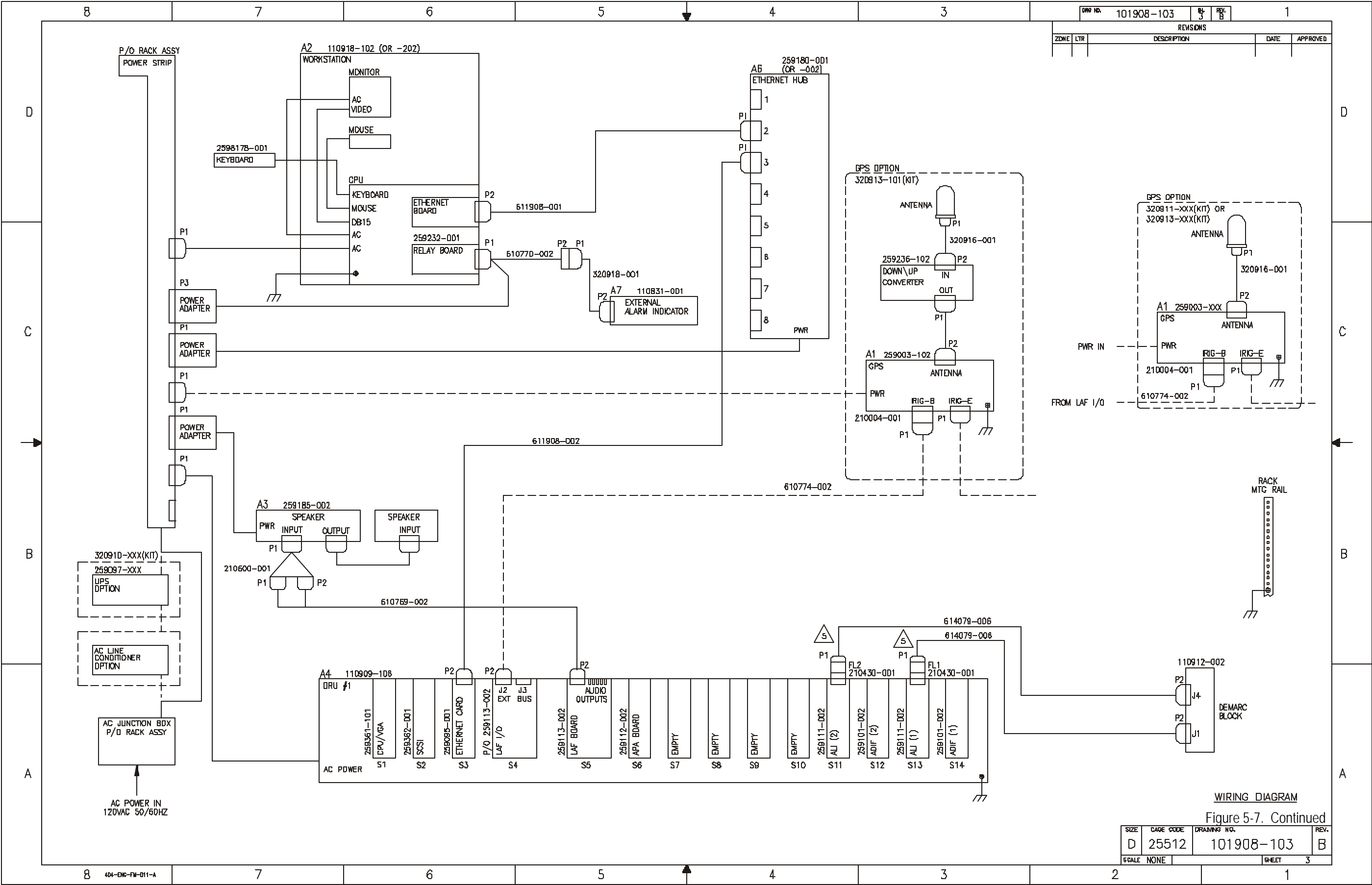
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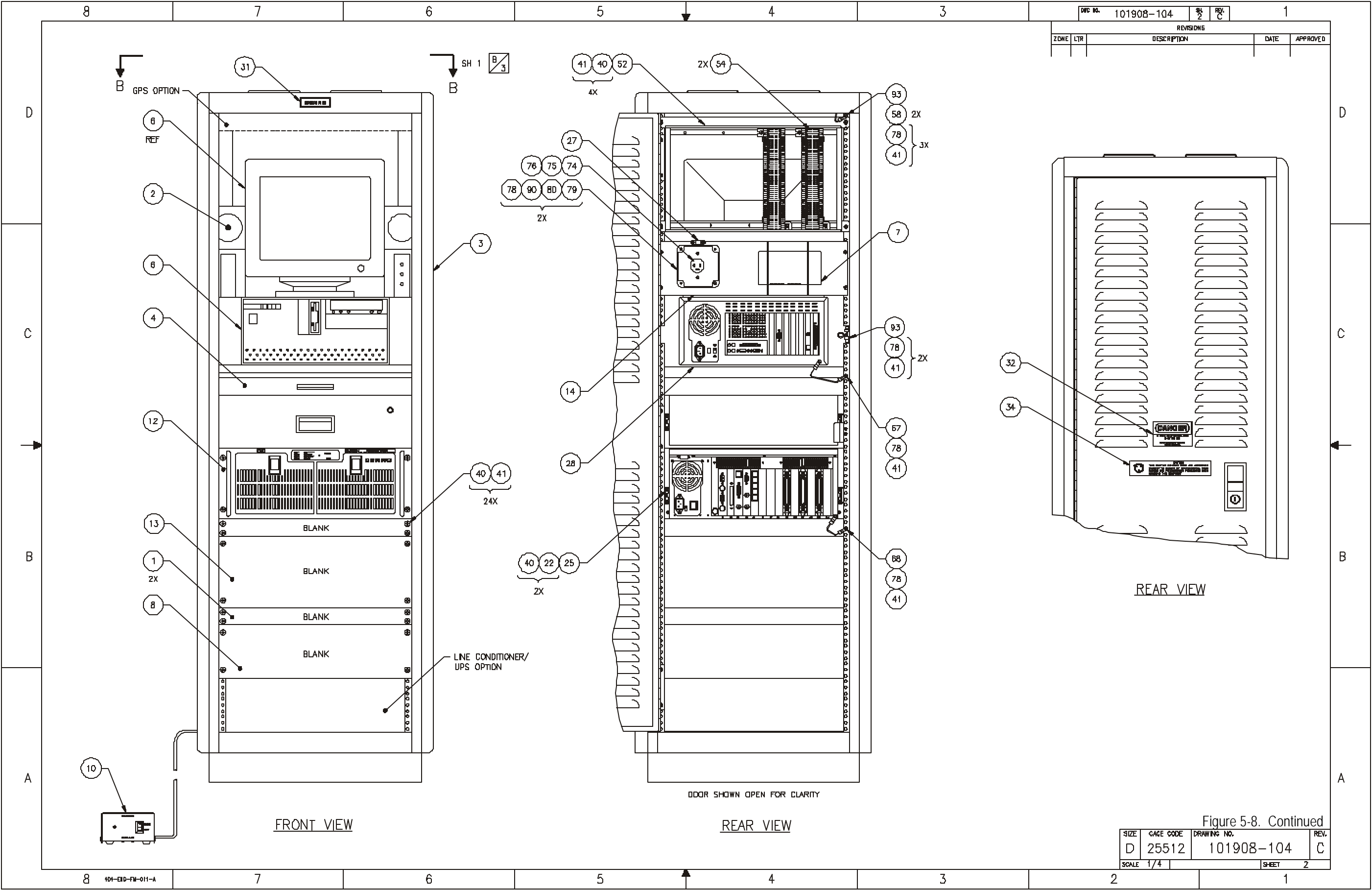
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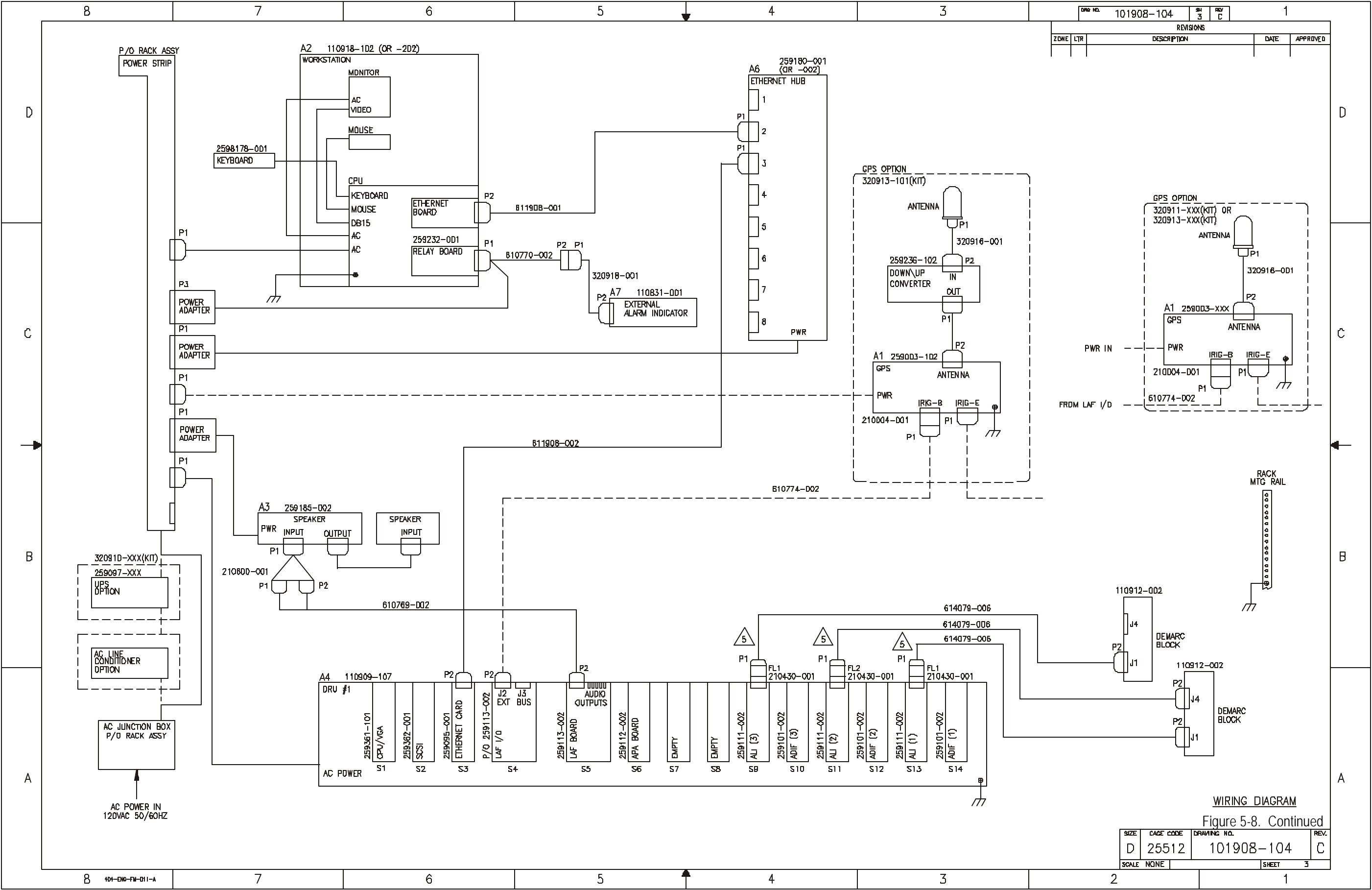
2

1

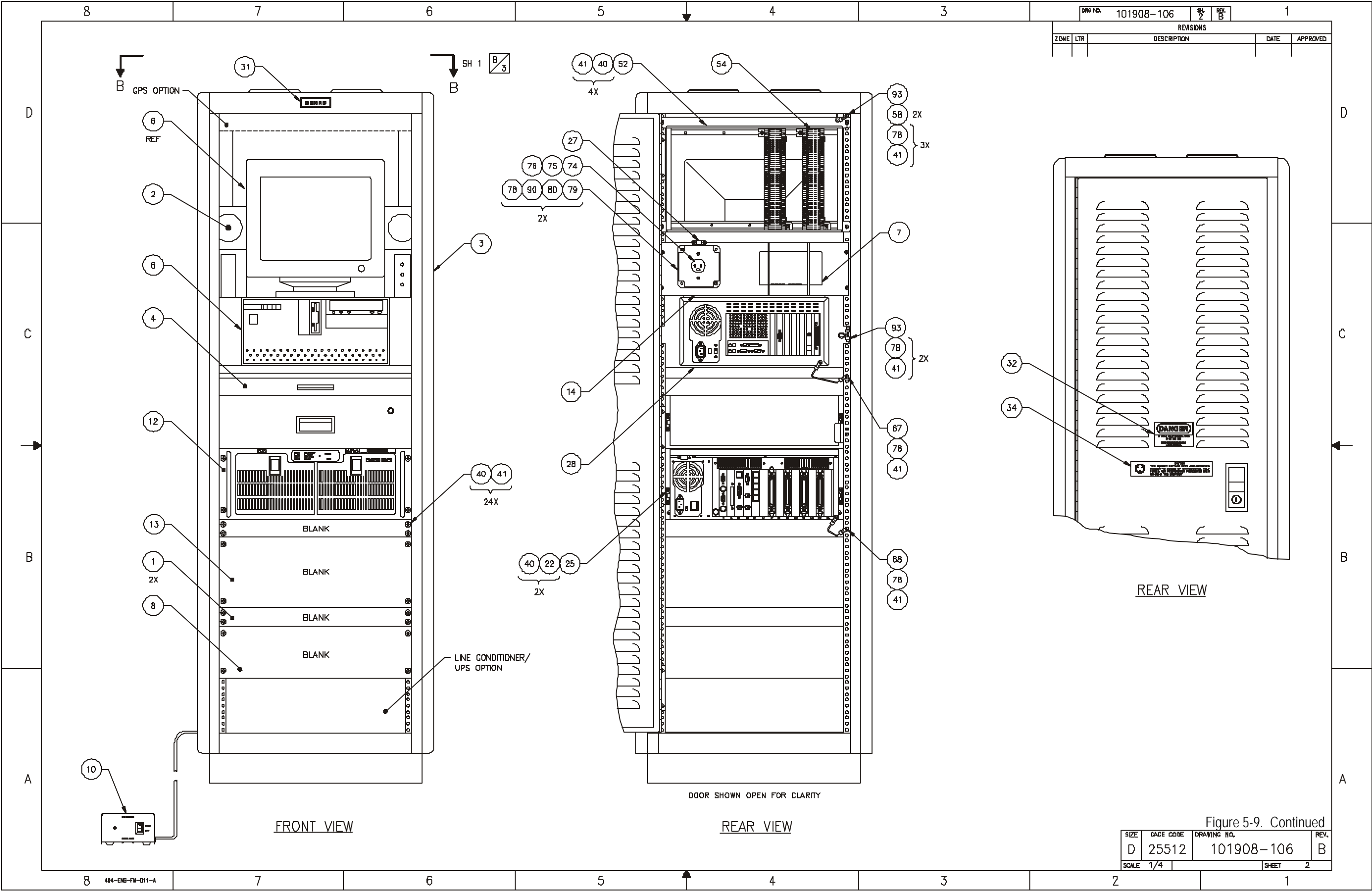


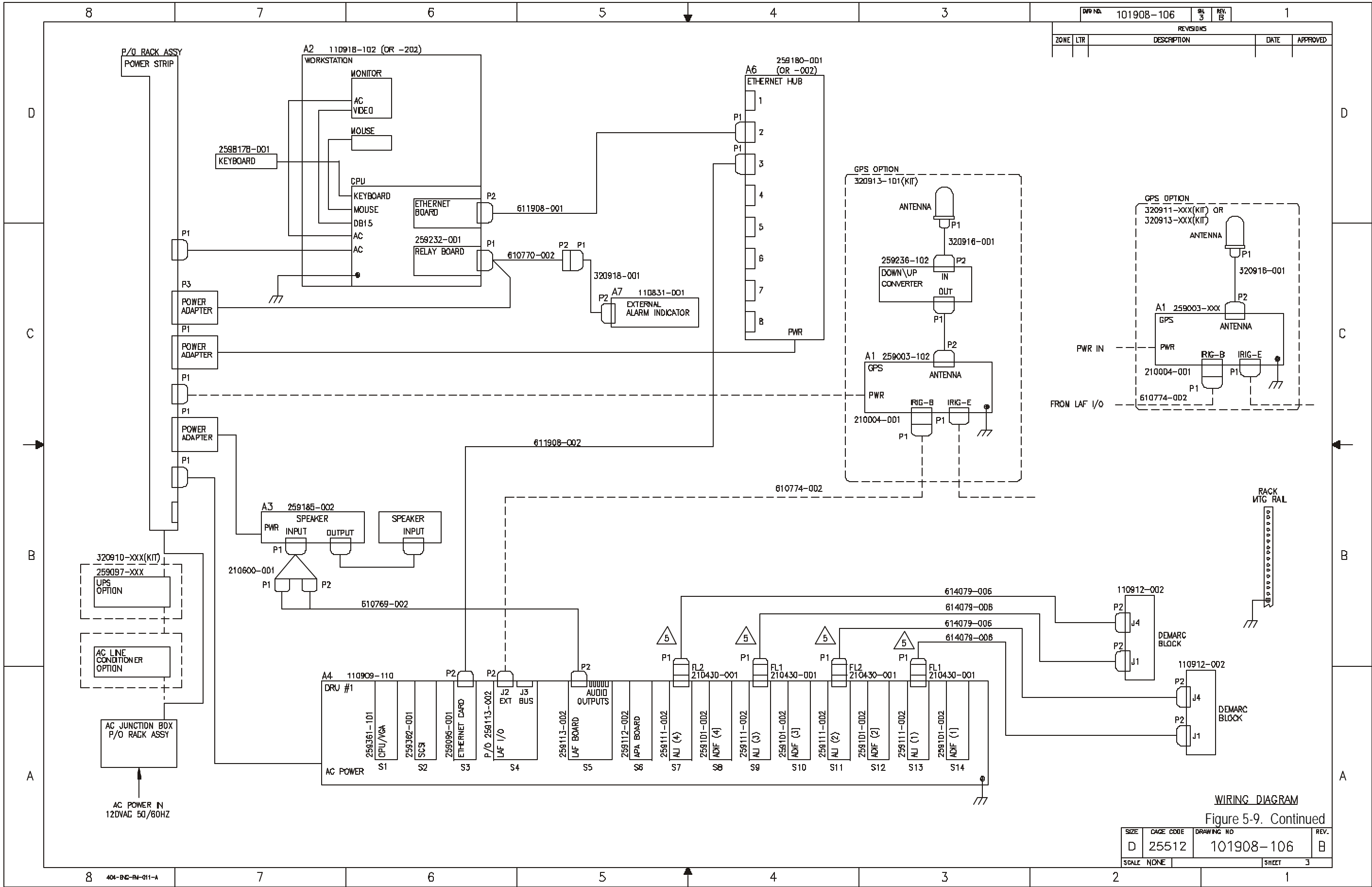


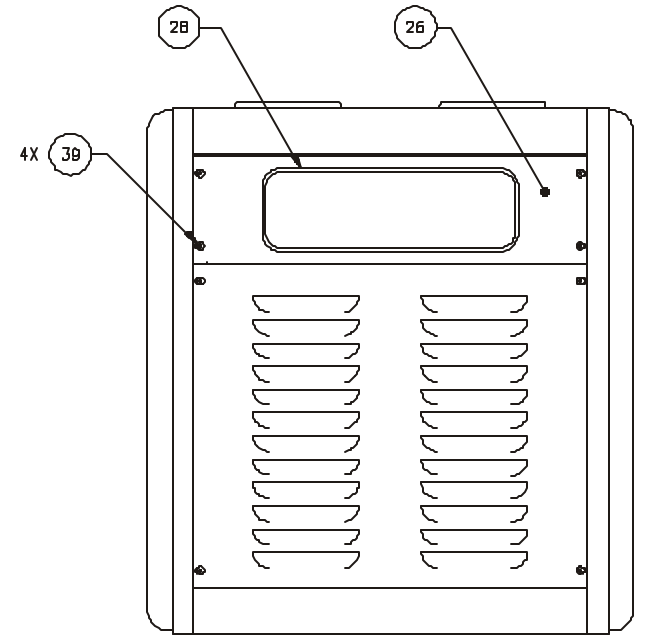






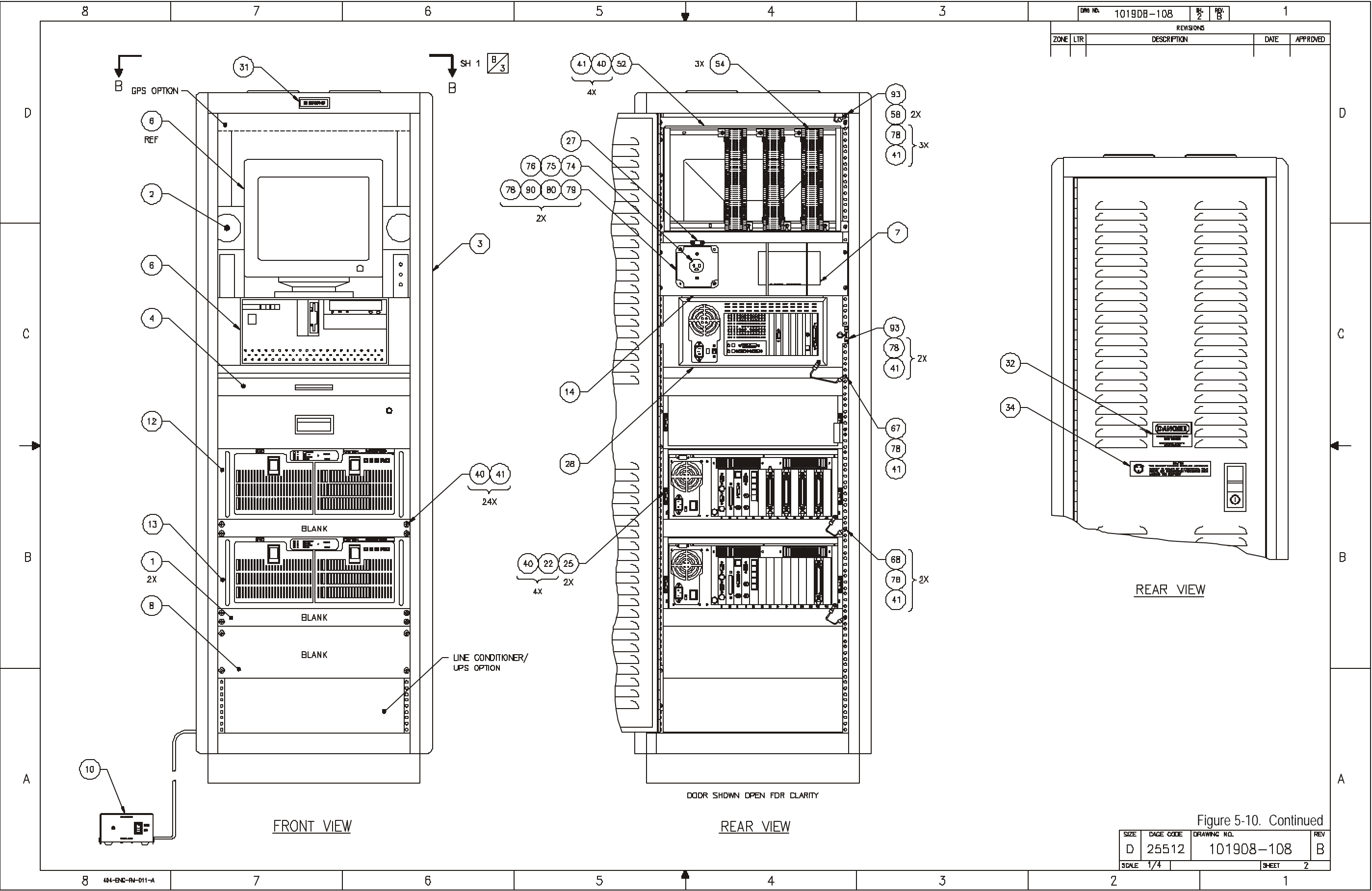


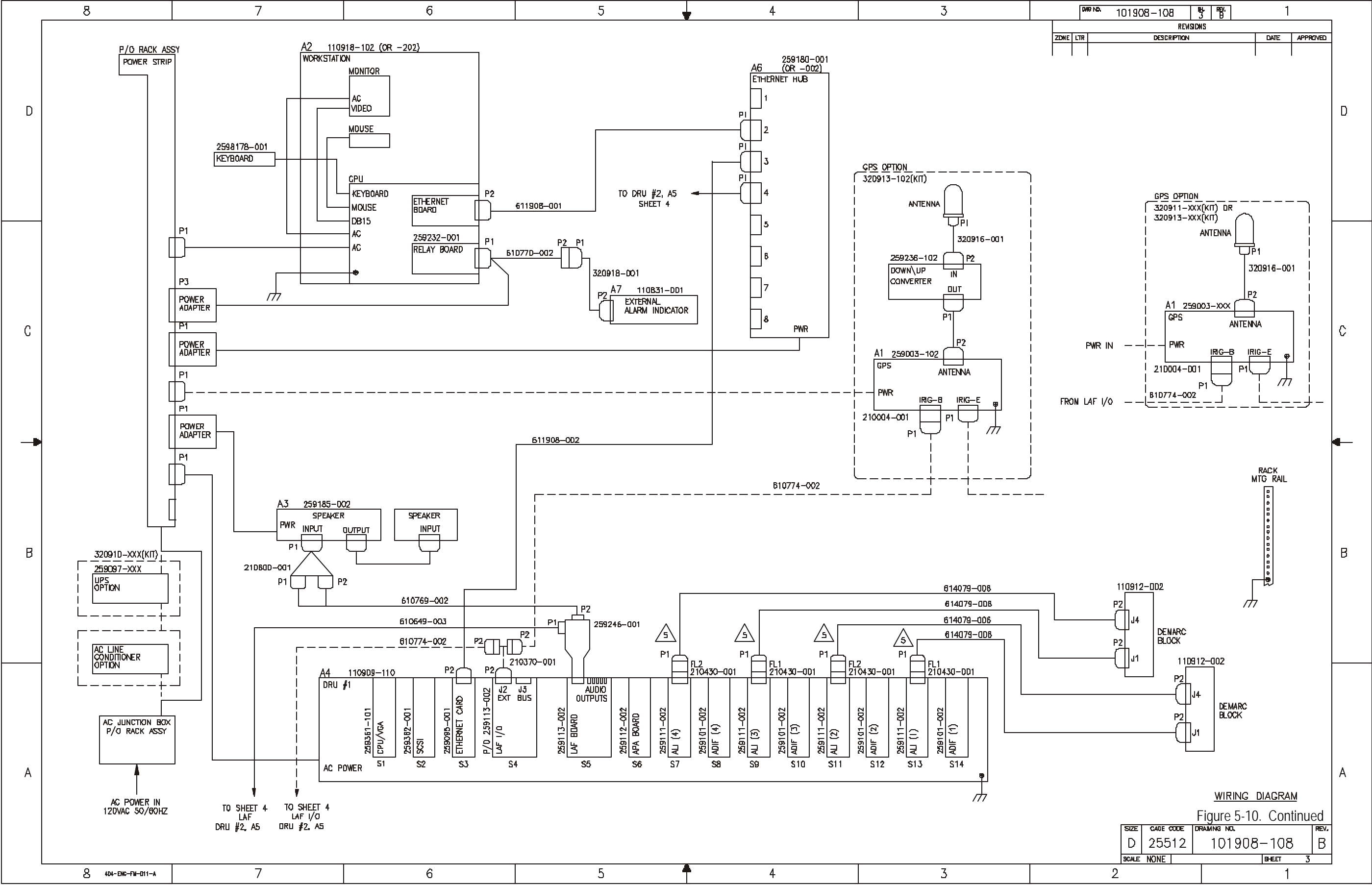
[illegible]





| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| D C B A | <p>NOTES: UNLESS OTHERWISE SPECIFIED:</p> <p>1. INTERPRET DRAWING IAW MIL-STD-100.</p> <p>2. WORKMANSHIP TO BE IN ACCORDANCE WITH REQUIREMENT D.</p> <p>3. PRECAUTIONARY PACKAGING, HANDLING AND PROCESSING PROCEDURES SHALL BE USED TO PREVENT DAMAGE FROM ELECTROSTATIC, ELECTROMAGNETIC AND OTHER ENVIRONMENTAL FIELD FORCES.</p> <p>4. FIND NOS 5, 11, 29, 53, 55 THRU 57, 60, 61, 63 THRU 65, 82, 100 ARE USED BUT NOT SHOWN ON FIELD OF DRAWING. SEE SEPARATE PARTS LIST.</p> <p>5. BUNDLE CABLES WITH RACK EQUIPMENT SLIDES IN FULLY EXTENDED POSITION.</p> <p>6. 50 OHM TERMINATION, 210371-001, USED WITH GPS OPTION TO BE INSTALLED IN LAST DRU IN SERIES.</p>  <p style="text-align: center;">SH 2 A SH 4 3 VIEW B-B</p> <div style="text-align: center;"><p>CAUTION SENSITIVE ELECTRONIC DEVICES</p><p>SEE SEPARATE PARTS LIST</p></div> <table border="1"><thead><tr><th>QTY REQ</th><th>CAGE CODE</th><th>PART OR IDENTIFYING NO</th><th>NOMENCLATURE OR DESCRIPTION</th><th>MATERIAL/SPECIFICATION</th><th>FIND NO</th></tr></thead><tbody><tr><td colspan="6">PARTS LIST</td></tr><tr><td></td><td></td><td></td><td>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .01 .XXX ± .005 DO NOT SCALE DIMS</td><td>CONTRACT NO DTFA01-95-C-00005</td><td rowspan="4"> 9318 GATHER ROAD GATHERSBURG, MD, 20877</td></tr><tr><td></td><td></td><td></td><td>DRAWN VINOD PATEL</td><td>DATE 2001-02-14</td><td rowspan="3">Figure 5-10. Rack Assembly, DVR2, 120 Channel</td></tr><tr><td></td><td></td><td></td><td>CHECK B. BURKE</td><td>2001-03-02</td></tr><tr><td></td><td></td><td></td><td>DESIGN V. PATEL</td><td>2001-03-02</td></tr><tr><td></td><td></td><td></td><td>MATERIAL</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>FINISH</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>MANUFACTURING ENGRG W.H./S. IMPLTD</td><td>2001-03-05</td><td></td></tr><tr><td></td><td></td><td></td><td>QUALITY ASSURANCE R. TOMS</td><td>2001-03-05</td><td></td></tr><tr><td></td><td></td><td></td><td>ADDITIONAL APPROVALS</td><td>DATE</td><td></td></tr><tr><td></td><td></td><td></td><td>APPLICATION</td><td></td><td></td></tr></tbody></table> <table border="1"><thead><tr><th>REV.</th><th>STATUS</th><th>OF SHEETS</th><th>SHEET</th><th>REVISION</th><th>DATE</th><th>APPROVED</th><th>BY</th><th>DATE</th><th>SCALE</th><th>1/4</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th></tr></thead><tbody><tr><td>B</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> | | | | | | QTY REQ | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL/SPECIFICATION | FIND NO | PARTS LIST | | | | | | | | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .01 .XXX ± .005 DO NOT SCALE DIMS | CONTRACT NO DTFA01-95-C-00005 |  9318 GATHER ROAD GATHERSBURG, MD, 20877 | | | | DRAWN VINOD PATEL | DATE 2001-02-14 | Figure 5-10. Rack Assembly, DVR2, 120 Channel | | | | CHECK B. BURKE | 2001-03-02 | | | | DESIGN V. PATEL | 2001-03-02 | | | | MATERIAL | | | | | | FINISH | | | | | | MANUFACTURING ENGRG W.H./S. IMPLTD | 2001-03-05 | | | | | QUALITY ASSURANCE R. TOMS | 2001-03-05 | | | | | ADDITIONAL APPROVALS | DATE | | | | | APPLICATION | | | REV. | STATUS | OF SHEETS | SHEET | REVISION | DATE | APPROVED | BY | DATE | SCALE | 1/4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | B | | | 1 | | | | | | | | | | | | | | | | <table border="1"><thead><tr><th colspan="2">ZONE</th><th>LTR</th><th>DESCRIPTION</th><th>DATE</th><th>APPROVED</th></tr></thead><tbody><tr><td>B</td><td>INC</td><td>EO</td><td>102247</td><td>VP</td><td>2002-03-01</td></tr></tbody></table> | | | ZONE | | LTR | DESCRIPTION | DATE | APPROVED | B | INC | EO | 102247 | VP | 2002-03-01 | <table border="1"><thead><tr><th colspan="2">REV. NO.</th><th>REV. DATE</th></tr></thead><tbody><tr><td>1</td><td>1</td><td>2002-03-01</td></tr></tbody></table> | | | REV. NO. | | REV. DATE | 1 | 1 | 2002-03-01 |
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| | | | UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .01 .XXX ± .005 DO NOT SCALE DIMS | CONTRACT NO DTFA01-95-C-00005 |  9318 GATHER ROAD GATHERSBURG, MD, 20877 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | DRAWN VINOD PATEL | DATE 2001-02-14 | | Figure 5-10. Rack Assembly, DVR2, 120 Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CHECK B. BURKE | 2001-03-02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | DESIGN V. PATEL | 2001-03-02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | MATERIAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | FINISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | MANUFACTURING ENGRG W.H./S. IMPLTD | 2001-03-05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | QUALITY ASSURANCE R. TOMS | 2001-03-05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| REV. | STATUS | OF SHEETS | SHEET | REVISION | DATE | APPROVED | BY | DATE | SCALE | 1/4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZONE | | LTR | DESCRIPTION | DATE | APPROVED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | INC | EO | 102247 | VP | 2002-03-01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV. NO. | | REV. DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2002-03-01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |





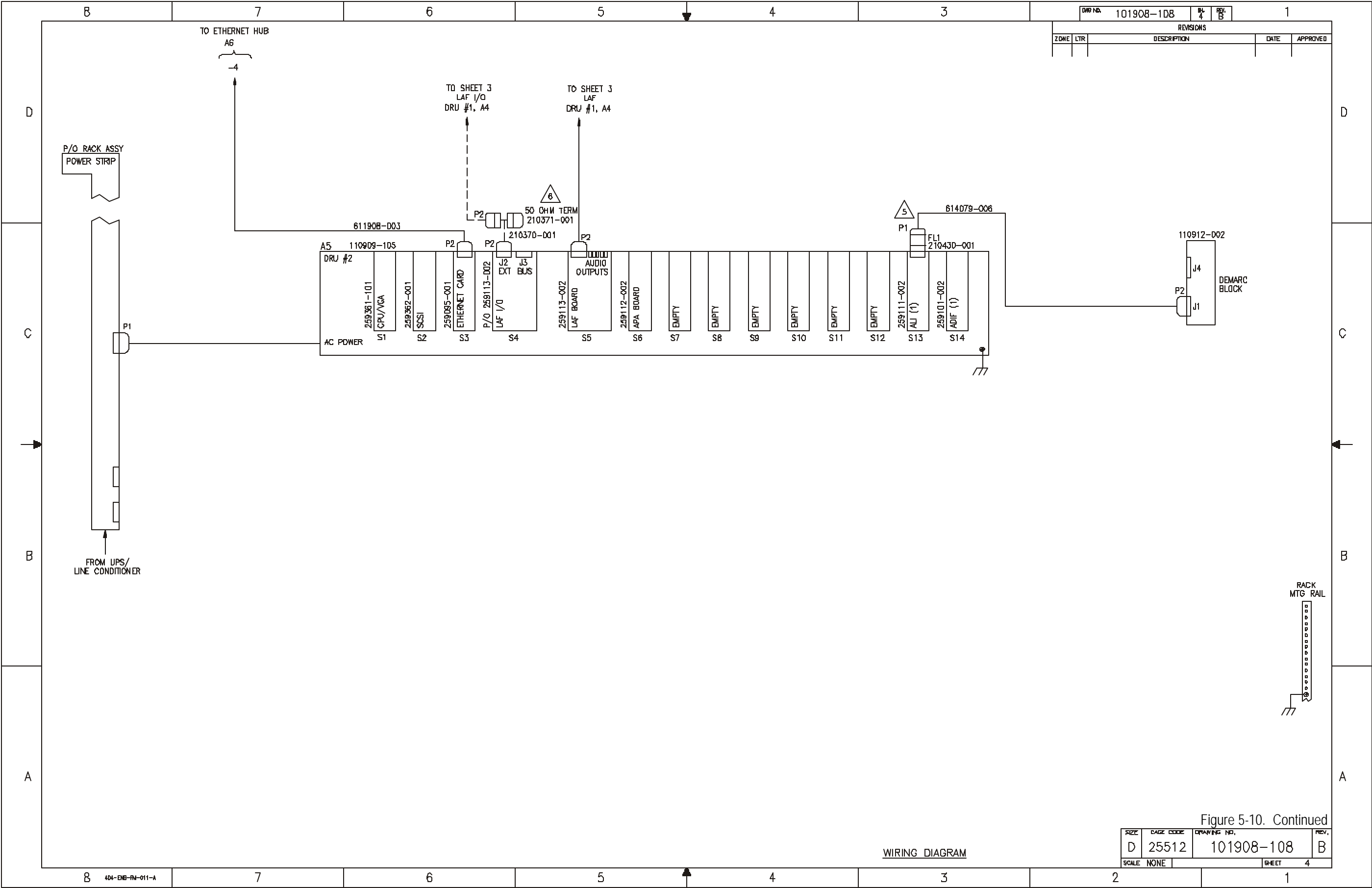
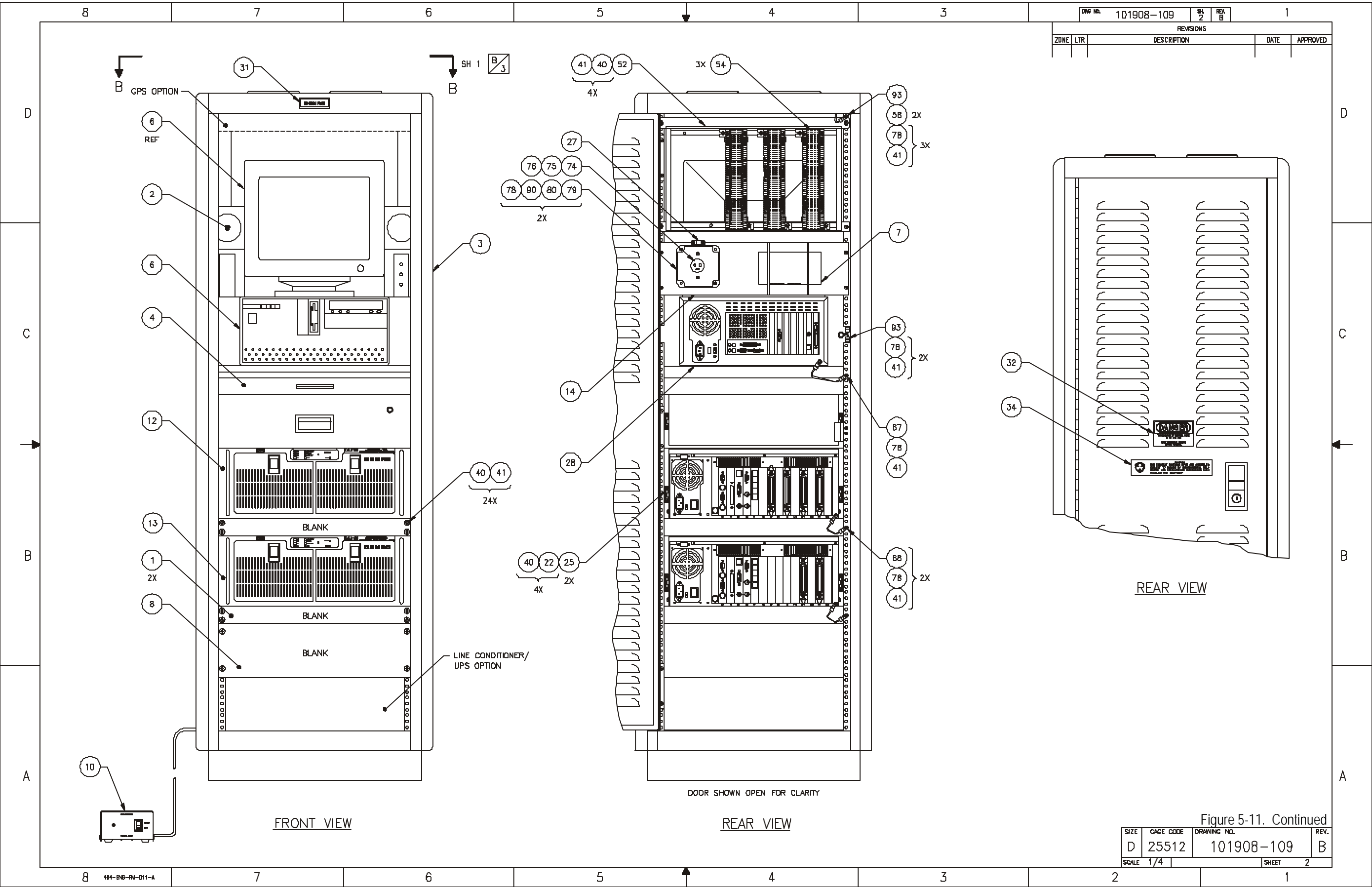
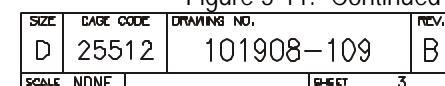


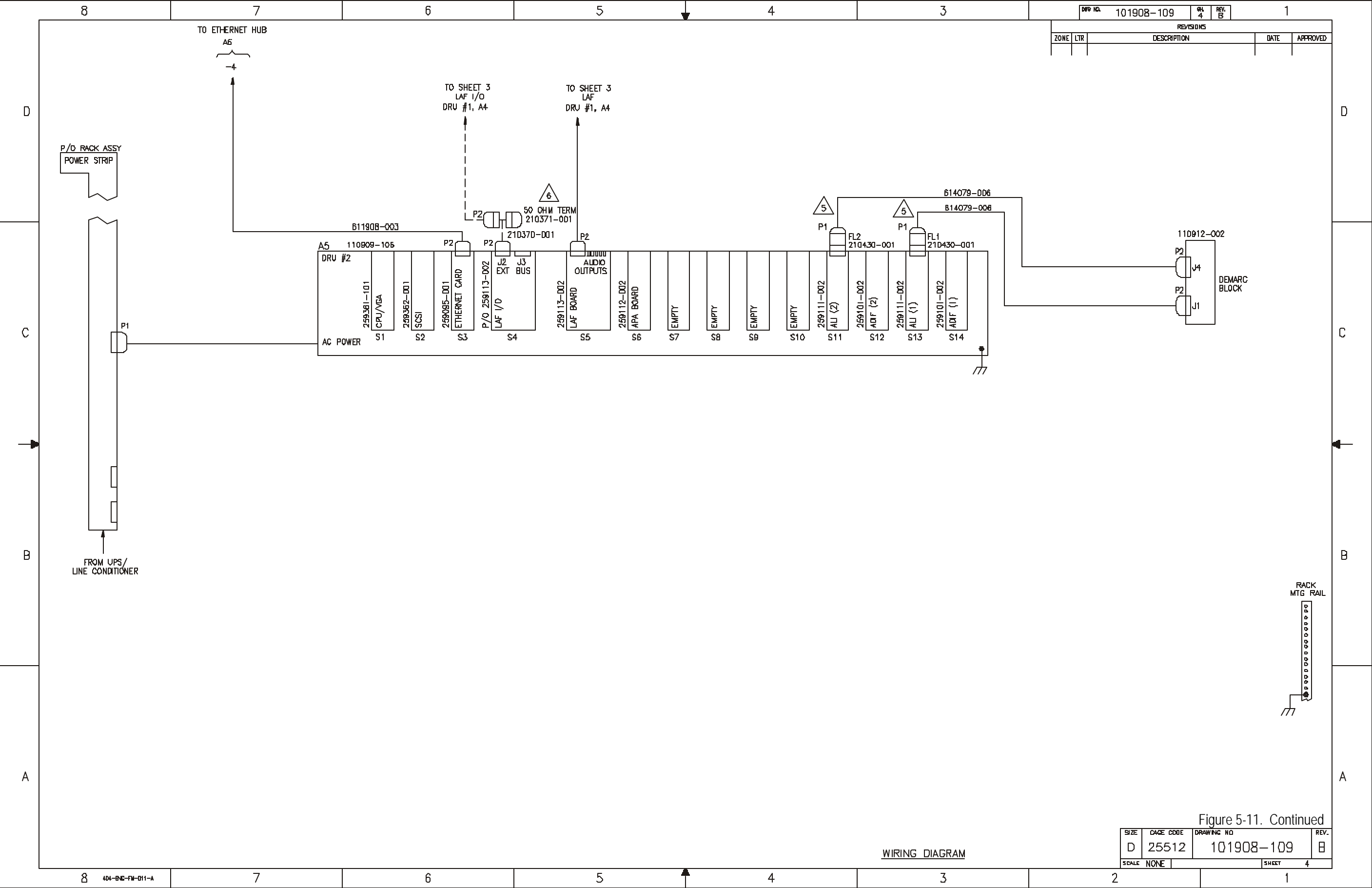
Figure 5-10. Continued

| SIZE | DATE CODE | DRAWING NO. | REV. |
|-------|-----------|-------------|------|
| D | 25512 | 101908-108 | B |
| SCALE | NONE | SHEET | 4 |

WIRING DIAGRAM







| | | | | | | | | | | | |
|--|--|--|--|--|--|-----------|------------|-------------|------|------------|---------|
| | | | | | | DWG NO. | 101908-110 | SHEET | 1 | REV. | B |
| | | | | | | REVISIONS | | | | | |
| | | | | | | ZONE | LTR | DESCRIPTION | DATE | APPROVED | |
| | | | | | | B | INC | EO 102247 | VP | 2002-03-01 | BB / FD |

NOTES. UNLESS OTHERWISE SPECIFIED:

- INTERPRET DRAWING IAW MIL-STD-100.
- ~~WORKMANSHIP TO BE IAW MIL-HDBK-454, REQUIREMENT D.~~
- PRECAUTIONARY PACKAGING, HANDLING AND PROCESSING PROCEDURES SHALL BE USED TO PREVENT DAMAGE FROM ELECTROSTATIC, ELECTROMAGNETIC AND OTHER ENVIRONMENTAL FIELD FORCES.
- FIND NOS 5, 11, 29, 53, 55 THRU 57, 60, 61, 63 THRU 65, 82, 100 ARE USED BUT NOT SHOWN ON FIELD OF DRAWING. SEE SEPARATE PARTS LIST.
- BUNDLE CABLES WITH RACK EQUIPMENT SLIDES IN FULLY EXTENDED POSITION.
- 50 OHM TERMINATION, 21D371-001, USED WITH GPS OPTION TO BE INSTALLED IN LAST DRU IN SERIES.

SH 2 A
SH 4 3

VIEW B-B

CAUTION
SENSITIVE ELECTRONIC DEVICES

SEE SEPARATE PARTS LIST

| QTY REQ | CAGE CODE | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION | MATERIAL/SPECIFICATION | FIND NO |
|--|-----------|-------------------------|-----------------------------|-------------------------------|------------------------|
| PARTS LIST | | | | | |
| | | | | Utron | 931B GATHER ROAD |
| | | | | Denpro | GATHERSBURG, ND, 20877 |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .01 .XXX ± .005 ANGULAR ± 1° DO NOT SCALE DWG | | | | CONTRACT NO DTFA01-95-C-00005 | |
| DRAWN VINOD PATEL | | | | DATE 2001-02-11 | |
| CHECK B. BURKE | | | | 2001-03-02 | |
| DESIGN V. PATEL | | | | 2001-03-02 | |
| MATERIAL | | | | | |
| FINISH | | | | | |
| ENR F. DIETSCH | | | | 2001-03-02 | |
| PRW ENG F. DIETSCH | | | | 2001-03-02 | |

| | | | | | | | |
|------------------------------------|------------|-------------|---------|------------|-----------------|------------------------|--------|
| MANUFACTURING ENGRG W.H./S. IMPLTD | 2001-01-05 | 100908-110 | DVR2 | SIZE D | CAGE CODE 25512 | DRAWING NO. 101908-110 | REV. B |
| QUALITY ASSURANCE R. TOMS | 2001-03-05 | NEXT ASBY | USED ON | SCALE 1/4" | SHEET 1 OF 4 | | |
| ADDITIONAL APPROVALS | | APPLICATION | | | | | |

| | | | | | | | |
|------------------|---|---|---|---|---|---|---|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 404-BNC-FM-010-A | | | | | | | |

